

Title (en)

GAS SAMPLING DEVICE WITH IMPROVED MIXED FLOW FAN

Publication

EP 0468030 A4 19920715 (EN)

Application

EP 91904258 A 19910130

Priority

- US 47723390 A 19900208
- US 9100583 W 19910130

Abstract (en)

[origin: US5018395A] A gas sampling device including a chamber assembly formed of a chamber base having a chamber top mounted thereto is disclosed. A gas sensor is mounted to the chamber base in fluid communication with a gas flow passage therethrough. A motor is mounted to the lower surface of the chamber base and has a shaft extending through the chamber base. A fan is mounted onto the motor shaft within the chamber housing. An inlet flow passage extends through the chamber top above the center of the fan and an outlet flow passage extends through the chamber top above the gas flow passage. The fan and the chamber top are provided with a particular configuration to provide for efficient and smooth flows of gas through the housing and to the sensor.

IPC 1-7

G01N 1/24

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] US 3131236 A 19640428 - BEEHLER RICHARD F, et al
- [A] EP 0042800 A1 19811230 - UNION DE SYNDICATS UNION TECH [FR]
- [A] FR 717272 A 19320106
- [A] EP 0157229 A1 19851009 - BIOTEST SERUM INSTITUT GMBH [DE]
- [A] HEATING AND VENTILATING vol. 45, no. 9, September 1948, pages 68 - 80; F.P.BLEIER: 'design,performance and selection of centrifugal fans'
- See references of WO 9112512A1

Designated contracting state (EPC)

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